NUMBER PATTERN PROGRAMMING ASSIGNMENT

1) Write a java program to print pascal triangle

```
      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
```

2) Write a java program to print half pyramid of reversed pattern

```
54321
5432
543
54
5
```

3) Write a java program to print diamond pattern with repeating numbers

```
    1
   222
  33333
 4444444
555555555
 4444444
  33333
   222
    1
```

4) Write a java program to print hollow pyramid pattern

```
    1
   2 2
  3   3
 4     4
5       5
```

5) Write a java program to print diamond pattern with numbers

```
   1
  121
 12321
1234321
 12321
  121
   1
```

NUMBER PATTERN PROGRAMMING ASSIGNMENT

6) Write a java program to print palindromic diamond pattern

```
        1
       212
      32123
     4321234
    543212345
     4321234
      32123
       212
        1
```

7) Write a java program to print hour glass pattern

```
1  2  3  4  5
 2  3  4  5
  3  4  5
   4  5
    5
   4  5
  3  4  5
 2  3  4  5
1  2  3  4  5
```

8) Write a java program to print pyramid pattern

```
1
232
34543
4567654
567898765
```

9) Write a java program to print butterfly pattern

```
1           1
12         21
123       321
1234     4321
1234554321
1234     4321
123       321
12         21
1           1
```

NUMBER PATTERN PROGRAMMING ASSIGNMENT

10)Write a java program to print two triangle side by side to make square pattern

```
1       10 9 8 7 6 5 4 3 2 1
1 2      10 9 8 7 6 5 4 3 2
1 2 3     10 9 8 7 6 5 4 3
1 2 3 4    10 9 8 7 6 5 4
1 2 3 4 5   10 9 8 7 6 5
1 2 3 4 5 6   10 9 8 7 6
1 2 3 4 5 6 7   10 9 8 7
1 2 3 4 5 6 7 8   10 9 8
1 2 3 4 5 6 7 8 9   10 9
1 2 3 4 5 6 7 8 9 10    10
```